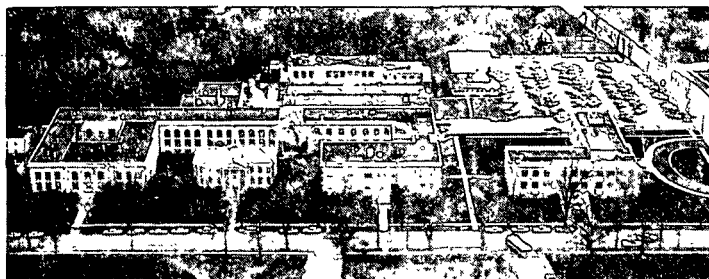


BASE-LINE
3rd Quarter, 1978



THE INSTITUTE OF PAPER CHEMISTRY, APPLETON, WISCONSIN

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL CORRUGATING MEDIUM DATA FOR JULY, AUGUST, SEPTEMBER, 1978)

Project 2694-2

Report Thirty-Three

A Progress Report

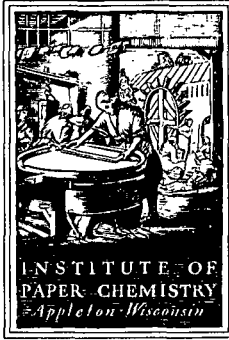
to

FOURDRINIER KRAFT BOARD GROUP

OF THE

AMERICAN PAPER INSTITUTE

November 30, 1978



THE INSTITUTE OF PAPER CHEMISTRY
Post Office Box 1039
Appleton, Wisconsin 54912
Phone: 414/734-9251

November 30, 1978

Project 2694-2

Dear Sir:

We are enclosing a copy of the following report to the Fourdrinier Kraft Board Group of the American Paper Institute:

Report Thirty-Three, Project 2694-2, a progress report entitled "Continuous Baseline Study of Mill Corrugating Medium; Data for July, August, and September, 1978" dated November 30, 1978.

The code identities for paper machines in your company from which data were submitted for evaluation are given on the inside of the front cover of this report.

Very truly yours,

William J. Whitsitt
Research Associate
Engineering Division

WJW/fcg

Enclosure

Georgia-Pacific

Your paper machine is identified by the
following code letter in this report

Toledo

No. 2

C1

BASE-LINE
3rd Quarter, 1978

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL CORRUGATING MEDIUM DATA FOR JULY, AUGUST, SEPTEMBER, 1978)

Project 2694-2

Report Thirty-Three

A Progress Report

to

FOURDRINIER KRAFT BOARD GROUP

OF THE

AMERICAN PAPER INSTITUTE

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November 30, 1978

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THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

CONTINUOUS BASE-LINE STUDY (MODIFIED)
(MILL CORRUGATING MEDIUM DATA FOR JULY, AUGUST, SEPTEMBER, 1978)

SUMMARY OF 26-LB CORRUGATING MEDIUM DATA
(JUNE-SEPTEMBER, 1978)

Test	June		July		August		September	
	Total	Recycled	Total	Recycled	Total	Recycled	Total	Recycled
Moisture content, %	Max. ^a	9.4	7.0	9.3	7.0	7.4	7.2	7.0
	Min. ^a	4.1	4.1	4.0	4.0	4.1	4.1	4.1
	Av. ^b	6.3(38)	5.7(9)	6.3(35)	5.7(9)	6.2(31)	6.1(34)	5.7(9)
Adj. basis weight, lb/M ft ²	Max. ^a	27.5	27.1	27.6	27.6	27.4	27.4	27.4
	Min. ^a	25.8	26.4	25.5	26.2	25.4	25.5	26.3
	Av. ^b	26.5(38)	26.7(9)	26.4(35)	26.7(9)	26.5(31)	26.5(34)	26.7(9)
Caliper, pt.	Max. ^a	11.0	10.0	11.3	10.0	11.1	10.9	10.0
	Min. ^a	8.2	8.2	7.8	7.8	7.9	8.6	8.6
	Av. ^b	9.6(37)	9.1(8)	9.6(34)	9.0(8)	9.5(30)	9.7(33)	9.1(8)
Concora, lb	Max. ^a	73.0	70.4	74.8	70.3	75.0	75.9	70.6
	Min. ^a	55.0	58.2	55.0	57.9	56.0	56.3	56.3
	Av. ^b	63.1(38)	62.3(9)	62.5(35)	62.2(9)	62.0(31)	62.3(34)	62.3(9)

^a Current machine average.

^b Current F.K.B.G. average, number of machines is indicated in parentheses.

INTRODUCTION

The continuous base-line study (modified) is a compilation of monthly averages of mill test data obtained routinely on 26-lb corrugating medium manufactured in the member mills of F.K.B.G. Mill data are included for moisture content, basis weight, caliper, and Concora made on the production of individual machines which produced at least 500 tons of this grade weight during a given month.

PRESENTATION OF DATA

For the 26-lb grade weight of corrugating medium referred to earlier, data on conditioning and testing environments, mill test averages for moisture content, adjusted basis weight, caliper, and Concora results are compiled in the following tables.

Table Number	Description
I-II-III	Mill Test Averages on 26-Lb Corrugating Medium
IV	Data on Conditioning and Testing Environments

The procedures used in calculating cumulative machine averages, machine factors, machine indexes, and F.K.B.G. indexes are described in the Appendix.

It should be explained that the number of machines for which data are compiled in each table for a specified month varies for these reasons: a machine must have (a) produced at least 500 tons of 26-lb corrugating medium during the specified month, or (b) produced 500 tons of 26-lb corrugating medium during any one or more of the 12 months prior to the specified month (so that a cumulative average is available), to be included in a given table.

TABLE I
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. CORRUGATING MEDIUM
JULY, 1978

CODE *E	MOISTURE CONTENT, PERCENT				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				CONCORA TEST, LB.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	INC. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1		7.6				26.2				9.1				65.0		
B1	6.1	5.0	122.0	96.8	26.6	27.0	98.5	100.4	10.7	11.1	96.4	110.3	60.7	61.4	98.5	96.2
C1		6.8				27.3				9.0				62.9		
C1(R)	4.0	4.2	95.2	63.5	26.4	26.8	98.5	99.6	9.0	9.0	100.0	92.8	60.8	60.4	100.7	96.4
E1(R)	5.9	5.8	101.7	93.6	26.4	26.4	100.0	99.6	10.0	10.0	100.0	103.1	63.8	64.3	99.2	101.1
F1	6.5	6.6	98.5	103.2	26.2	26.1	100.4	98.9	10.0	10.5	95.2	103.1	61.0	59.8	102.0	96.7
G1	6.2	6.0	103.3	98.4	26.7	26.4	101.1	100.8	9.2	9.2	100.0	94.8	66.0	66.2	99.7	104.6
F1(R)	7.0	7.0	100.0	111.1	26.2	26.2	100.0	98.9	9.5	9.6	99.0	97.9	70.3	70.2	100.1	111.4
I1	6.9	6.1	113.1	109.5	26.2	26.5	98.9	98.9	9.5	10.0	95.0	97.9	61.1	62.7	97.4	96.8
J1	6.2	6.8	91.2	98.4	26.1	26.0	100.4	98.5	9.1	9.6	94.8	93.8	55.0	60.7	90.6	87.2
K1	7.1	5.5	129.1	112.7	26.1	26.6	98.1	98.5	9.6	10.2	94.1	99.0	62.0	63.0	98.4	98.2
L1	6.6	6.5	101.5	104.8	26.3	26.4	99.6	99.2	11.3	10.8	104.6	116.5	60.5	59.9	101.0	95.9
M1	6.9	6.3	109.5	109.5	26.3	26.4	99.6	99.2	9.8	9.8	100.0	101.0	60.5	62.2	97.3	95.9
N1	7.2	7.2	100.0	114.3	26.3	26.0	101.2	99.2	10.5	10.6	99.0	108.2	62.0	59.6	104.0	98.2
O1		7.5				26.5				8.8				70.0		
P1	7.0	6.8	102.9	111.1	26.2	26.5	98.9	98.9	10.0	9.9	101.0	103.1	61.0	62.2	98.1	96.7
C1(R)	6.0	6.0	100.0	95.2	26.4	26.4	100.0	99.6	9.0	9.0	100.0	92.8	61.2	61.1	100.2	97.0
R1(R)	6.0	6.4	93.8	95.2	26.9	26.8	100.4	101.5	9.0	9.0	100.0	92.8	64.0	65.1	98.3	101.4
S1(R)	5.4	5.2	103.8	85.7	26.7	26.9	99.2	100.8	9.0	9.0	100.0	92.8	58.5	59.4	98.5	92.7
T1	6.9	6.9	100.0	109.5	26.5	26.4	100.4	100.0	9.4	9.6	97.9	96.9	59.4	61.0	97.4	94.1
U1		7.5				26.1				8.9				64.6		
V1		6.0				26.7				10.7				67.4		
W1	6.0	5.9	101.7	95.2	27.3	27.2	100.4	103.0	9.2	9.7	94.8	94.8	59.3	60.6	97.8	94.0
X1(R)	6.9	6.8	101.5	109.5	26.4	26.4	100.0	99.6					64.0	64.9	98.6	101.4
Y1	6.8	6.7	101.5	107.9	26.3	26.9	97.8	99.2	9.5	9.9	96.0	97.9	61.0	62.6	97.4	96.7
Z1(R)	4.8	5.4	88.9	76.2	27.0	26.9	100.4	101.9	7.8	8.0	97.5	80.4	59.0	60.3	97.8	93.5
A2	5.8	5.7	101.8	92.1	26.7	26.6	100.4	100.8	9.1	9.3	97.8	93.8	68.5	68.8	99.6	108.6
B2		7.6				26.1				8.6				69.0		
C2	7.0	6.4	109.4	111.1	26.2	26.3	99.6	98.9	9.4	9.1	103.3	96.9	61.6	63.4	97.2	97.6
D2	9.3	9.4	98.9	147.6	26.0	25.8	100.8	98.1	9.8	10.0	98.0	101.0	62.0	62.4	99.4	98.2
E2	6.7	6.8	98.5	106.3	25.5	25.9	98.4	96.2	10.1	10.1	100.0	104.1	66.0	66.4	99.4	104.6
F2		6.2				27.5				9.9				51.8		
G2	4.7	4.8	97.9	74.6	27.0	26.9	100.4	101.9	10.1	10.0	101.0	104.1	62.3	63.2	98.6	98.7
H2		6.0				26.7				9.7				61.0		
I2	5.3	5.8	91.4	84.1	26.7	26.8	99.6	100.8	8.5	8.7	97.7	87.6	61.2	64.4	95.2	97.1
J2	6.5	6.5	100.0	103.2	26.7	26.3	101.5	100.8	10.7	10.8	99.1	110.3	64.5	63.0	102.4	102.2
K2	5.5	6.0	91.7	87.3	26.4	26.3	100.4	99.6	9.1	9.3	97.8	93.8	74.8	71.8	104.2	118.5
L2	7.4	7.2	102.8	117.5	26.1	26.1	100.0	98.5	9.3	9.5	97.9	95.9	64.9	64.3	100.9	102.8
M2		6.9				26.1				8.4				73.0		
N2	6.5	6.2	104.8	103.2	26.6	26.6	100.0	100.4	9.5	9.8	96.9	97.9	63.3	62.1	101.5	100.3
O2(R)	5.0	4.9	102.0	79.4	27.6	27.3	101.1	104.2	9.0	9.0	100.0	92.8	57.9	60.2	96.2	91.8
P2	5.9	6.1	96.7	93.6	26.2	26.3	99.6	98.9	9.4	9.7	96.9	96.9	63.0	64.2	98.1	95.8
Q2	6.6	7.0	94.3	104.8	26.3	26.2	100.4	99.2	9.6	10.4	92.3	99.0	64.0	61.0	104.9	101.4
R2	5.4	5.4	100.0	85.7	26.5	26.4	100.4	100.0	10.5	10.5	100.0	108.2	62.0	63.3	97.5	98.2

FKBG DATA

	TOTAL	RECYCLED	TOTAL	RECYCLED	TOTAL	RECYCLED	TOTAL	RECYCLED
CUR. AV	6.3	5.7	26.4	26.7	9.6	9.0	62.5	62.2
CUM. AV	6.3	5.7	26.5	26.7	9.7	9.1	63.1	62.4
INC. *C	100.0	100.0	99.6	100.0	99.0	98.9	99.0	99.7

(*)-- NOTES A, B, C, D, AND E, ARE GIVEN IN APPENDIX.

TABLE II
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. CORRUGATING MEDIUM

AUGUST, 1978

CODE *E	MOISTURE CONTENT, PERCENT				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				CONCORA TEST, LB.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1		7.6				26.2				9.1				65.0		
B1	6.1	5.0	122.0	96.8	26.5	27.0	98.1	100.0	10.8	11.1	97.3	111.3	60.0	61.3	97.9	95.2
C1		6.8				27.3				9.1				63.0		
D1(R)	4.1	4.2	97.6	65.1	26.5	26.7	99.2	100.0	9.0	9.0	100.0	92.8	59.7	60.5	98.7	94.8
E1(R)	5.9	5.8	101.7	93.6	26.4	26.5	99.6	99.6	10.0	10.0	100.0	103.1	63.8	64.3	99.2	101.3
F1		6.6				26.1				10.5				59.6		
G1	6.1	6.0	101.7	96.8	26.5	26.4	100.4	100.0	9.1	9.2	98.9	93.8	66.0	66.2	99.7	104.8
H1(R)	7.0	7.0	100.0	111.1	26.2	26.2	100.0	98.9	9.5	9.6	99.0	97.9	69.9	70.2	99.6	111.0
I1	6.9	6.1	113.1	109.5	26.5	26.4	100.4	100.0	9.8	10.0	98.0	101.0	61.6	62.4	98.7	97.8
J1	6.4	6.7	95.3	101.6	26.1	26.0	100.4	98.5	9.1	9.5	95.8	93.8	56.0	59.8	93.6	88.9
K1	6.3	5.6	112.5	100.0	26.2	26.6	98.5	98.9	9.9	10.2	97.0	102.1	61.0	62.9	97.0	96.8
L1	6.8	6.6	103.0	107.9	26.3	26.4	99.6	99.2	11.1	11.0	100.9	114.4	57.1	60.6	94.2	90.6
M1	7.0	6.3	111.1	111.1	26.4	26.4	100.0	99.6	9.8	9.9	99.0	101.0	60.9	62.0	98.2	96.7
N1		7.1				26.0				10.7				59.6		
O1		7.5				26.5				8.8				70.0		
P1	7.0	6.8	102.9	111.1	26.2	26.5	98.9	98.9	9.8	10.0	98.0	101.0	60.0	62.1	96.6	95.2
Q1(R)	6.0	6.0	100.0	95.2	26.7	26.3	101.5	100.8	9.0	9.0	100.0	92.8	60.5	61.1	99.0	96.0
R1(R)	6.5	6.4	101.6	103.2	26.8	26.8	100.0	101.1	9.0	9.0	100.0	92.8	64.0	65.0	98.5	101.6
S1(R)	5.2	5.2	100.0	82.5	27.0	27.0	100.0	101.9	9.0	9.0	100.0	92.8	60.2	59.3	101.5	95.6
T1	6.9	6.9	100.0	109.5	26.4	26.4	100.0	99.6	9.4	9.6	97.9	96.9	59.9	60.9	98.4	95.1
U1		7.5				26.1				8.9				64.6		
V1		6.0				26.7				10.7				67.4		
W1	6.0	5.9	101.7	95.2	27.4	27.3	100.4	103.4	9.4	9.7	96.9	96.9	57.7	60.5	95.4	91.6
X1(R)	6.8	6.8	100.0	107.9	26.4	26.4	100.0	99.6					64.0	64.8	98.8	101.6
Y1	6.9	6.7	103.0	109.5	26.3	26.8	98.1	99.2	9.3	9.9	93.9	95.9	61.0	62.3	97.9	96.8
Z1(R)	4.7	5.2	90.4	74.6	27.0	26.9	100.4	101.9	7.9	8.0	98.8	81.4	59.0	60.2	98.0	93.6
A2	6.0	5.7	105.3	95.2	26.6	26.6	100.0	100.4	9.4	9.3	101.1	96.9	66.1	68.7	96.2	104.9
B2		7.6				26.1				8.6				69.0		
C2	7.1	6.5	109.2	112.7	26.3	26.3	100.0	99.2	9.3	9.2	101.1	95.9	60.7	63.1	96.2	96.3
D2		9.4				25.8				10.0				62.3		
E2	7.0	6.8	102.9	111.1	25.4	25.8	98.4	95.8	10.2	10.1	101.0	105.2	65.0	66.1	98.3	103.2
F2		6.2				27.5				9.9				51.8		
G2	4.9	4.8	102.1	77.8	26.9	26.9	100.0	101.5	9.7	10.0	97.0	100.0	61.7	63.2	97.6	97.9
H2		6.0				26.7				9.7				61.0		
I2	5.1	5.8	87.9	81.0	26.5	26.8	98.9	100.0	8.7	8.6	101.2	89.7	60.9	64.0	95.2	96.7
J2	6.2	6.5	95.4	98.4	26.7	26.3	101.5	100.8	10.8	10.8	100.0	111.3	64.1	63.1	101.6	101.7
K2	6.1	6.0	101.7	96.8	26.2	26.2	100.0	98.9	8.9	9.3	95.7	91.8	75.0	73.2	102.4	119.0
L2	7.4	7.2	102.8	117.5	26.1	26.1	100.0	98.5	9.0	9.5	94.7	92.8	64.7	64.4	100.5	102.7
M2		6.9				26.1				8.4				73.0		
N2	6.1	6.2	98.4	96.8	26.5	26.6	99.6	100.0	9.5	9.8	96.9	97.9	60.0	62.3	96.3	95.2
O2(R)	5.5	4.9	112.2	87.3	27.3	27.4	99.6	103.0	9.0	9.0	100.0	92.8	57.9	60.1	96.3	91.9
P2	5.8	6.0	96.7	92.1	26.6	26.3	101.1	100.4	9.6	9.7	99.0	99.0	63.0	64.1	98.3	100.0
Q2		6.9				26.2				10.3				61.1		
R2	5.5	5.4	101.8	87.3	26.4	26.5	99.6	99.6	10.5	10.5	100.0	108.2	61.0	63.1	96.7	96.8

FKBG DATA

	TOTAL	RECYCLED	TOTAL	RECYCLED	TOTAL	RECYCLED	TOTAL	RECYCLED
CUR. AV	6.2	5.7	26.5	26.7	9.5	9.0	62.0	62.1
CUM. AV	6.3	5.7	26.5	26.7	9.7	9.1	63.0	62.4
IND. *D	98.4	100.0	100.0	100.0	97.9	98.9	98.4	99.5

(*)-- NOTES A, B, C, D, AND E, ARE GIVEN IN APPENDIX.

TABLE III
AVERAGES OF ROUTINE MILL QUALITY CONTROL DATA FOR 26 LB. CORRUGATING MEDIUM
SEPTEMBER, 1978

CODE *E	MOISTURE CONTENT, PERCENT				ADJ. BASIS WT.,*A LB./ M SQ. FT.				CALIPER, PT.				CONCORA TEST, LB.			
	MACHINE DATA				MACHINE DATA				MACHINE DATA				MACHINE DATA			
	CUR. AV.	CUM. AV.	FACT. *P	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C	CUR. AV.	CUM. AV.	FACT. *B	IND. *C
A1		7.6				26.2				9.1				65.0		
B1	4.8	5.1	94.1	77.4	26.9	26.9	100.0	101.5	10.5	11.1	94.6	108.2	59.8	61.2	97.7	95.1
C1		6.8				27.4				9.1				62.9		
D1(R)	4.1	4.2	97.6	66.1	26.6	26.7	99.6	100.4	9.0	9.0	100.0	92.8	60.5	60.5	100.0	96.2
E1(R)	6.0	5.8	103.4	96.8	26.4	26.5	99.6	99.6	10.0	10.0	100.0	103.1	63.8	64.4	99.1	101.4
F1	6.3	6.5	96.9	101.6	26.1	26.1	100.0	98.5	10.4	10.5	99.0	107.2	59.0	59.5	99.2	93.8
G1	6.2	6.0	103.3	100.0	26.6	26.4	100.8	100.4	9.2	9.2	100.0	94.8	66.0	66.2	99.7	104.9
H1(R)	7.0	7.0	100.0	112.9	26.3	26.2	100.4	99.2	9.5	9.6	99.0	97.9	70.6	70.2	100.6	112.2
I1	6.3	6.3	100.0	101.6	26.6	26.4	100.8	100.4	9.7	9.9	98.0	100.0	60.7	62.2	97.6	96.5
J1	6.4	6.7	95.5	103.2	26.1	26.0	100.4	98.5	9.4	9.5	98.9	96.9	57.0	59.4	96.0	90.6
K1	6.0	5.7	105.3	96.8	26.3	26.6	98.9	99.2	10.2	10.1	101.0	105.2	61.0	62.6	97.4	97.0
L1	6.9	6.6	104.5	111.3	26.4	26.4	100.0	99.6	10.9	11.1	98.2	112.4	60.1	59.7	100.7	95.5
M1	6.4	6.4	100.0	103.2	26.4	26.4	100.0	99.6	9.8	9.9	99.0	101.0	61.0	61.7	98.9	97.0
N1	6.6	7.0	94.3	106.4	26.4	26.1	101.1	99.6	10.8	10.7	100.9	111.3	63.0	59.5	105.9	100.2
O1		7.5				26.5				8.8				70.0		
P1	7.0	6.8	102.9	112.9	26.2	26.5	98.9	98.9	9.7	10.0	97.0	100.0	61.0	62.0	98.4	97.0
Q1(R)	6.0	6.0	100.0	96.8	26.6	26.4	100.8	100.4	9.0	9.0	100.0	92.8	61.8	61.1	101.1	98.2
R1(R)	6.5	6.4	101.6	104.8	26.8	26.8	100.0	101.1	9.0	9.0	100.0	92.8	65.0	64.9	100.2	103.3
S1(R)	5.2	5.2	100.0	83.9	26.9	27.0	99.6	101.5	9.0	9.0	100.0	92.8	56.5	59.3	95.3	89.8
T1	6.7	6.9	97.1	108.1	26.4	26.4	100.0	99.6	9.3	9.6	96.9	95.9	60.1	60.8	98.8	95.5
U1		7.5				26.1				8.9				64.6		
V1		6.0				26.7				10.7				67.4		
W1	5.9	5.9	100.0	95.2	27.3	27.3	100.0	103.0	9.4	9.7	96.9	96.9	58.2	60.2	96.7	92.5
X1(R)	6.8	6.8	100.0	109.7	26.4	26.4	100.0	99.6					64.0	64.8	98.8	101.7
Y1	6.8	6.7	101.5	109.7	26.3	26.7	98.5	99.2	9.4	9.8	95.9	96.9	61.0	62.1	98.2	97.0
Z1(P)	4.2	5.2	80.8	67.7	27.1	26.9	100.7	102.3	8.6	8.0	107.5	88.6	62.0	60.1	103.2	98.6
A2	5.8	5.7	101.8	93.5	26.6	26.6	100.0	100.4	9.2	9.2	100.0	94.8	65.5	68.4	95.8	104.1
B2		7.6				26.1				8.6				69.0		
C2	6.9	6.6	104.5	111.3	26.6	26.3	101.1	100.4	9.3	9.2	101.1	95.9	61.8	62.7	98.6	98.2
D2		9.4				25.8				10.0				62.4		
E2	7.0	6.8	102.9	112.9	25.5	25.8	98.8	96.2	10.2	10.1	101.0	105.2	65.0	65.7	98.9	103.3
F2		6.2				27.5				9.9				51.8		
G2	4.7	4.8	97.9	75.8	26.9	26.9	100.0	101.5	9.7	10.0	97.0	100.0	62.3	63.0	98.9	99.0
H2		6.0				26.7				9.7				61.0		
I2	5.5	5.7	96.5	88.7	26.6	26.8	99.2	100.4	9.2	8.6	107.0	94.8	61.7	63.5	97.2	98.1
J2	6.6	6.5	101.5	106.4	26.4	26.3	100.4	99.6	10.8	10.8	100.0	111.3	64.1	63.1	101.6	101.9
K2	6.1	5.9	103.4	98.4	26.3	26.2	100.4	99.2	9.1	9.3	97.8	93.8	75.9	73.3	103.5	120.7
L2	7.2	7.2	100.0	116.1	26.3	26.1	100.8	99.2	8.9	9.4	94.7	91.8	62.0	64.4	96.3	98.6
M2		6.9				26.1				8.4				73.0		
N2	6.4	6.2	103.2	103.2	26.4	26.6	99.2	99.6	9.6	9.7	99.0	99.0	65.0	62.1	104.7	103.3
O2(R)	5.3	5.0	106.0	85.5	27.4	27.4	100.0	103.4	9.0	9.0	100.0	92.8	56.3	60.0	93.8	89.5
P2	5.9	6.0	98.3	95.2	26.5	26.3	100.8	100.0	9.9	9.7	102.1	102.1	63.0	64.0	98.4	100.2
Q2	6.5	6.8	95.6	104.8	26.7	26.2	101.9	100.8	10.7	10.3	103.9	110.3	63.0	61.1	103.1	100.2
R2	5.4	5.4	100.0	87.1	26.5	26.5	100.0	100.0	10.6	10.5	101.0	109.3	60.0	62.8	95.5	95.4

FKBG DATA		TOTAL		RECYCLED		TOTAL		RECYCLED		TOTAL		RECYCLED	
CUR. AV	6.1		5.7		26.5		26.7		9.7		9.1		62.3
CUM. AV	6.2		5.7		26.5		26.7		9.7		9.1		62.9
IND. *D	98.4		100.0		100.0		100.0		100.0		100.0		99.0

(*)-- NOTES A, B, C, D, AND E, ARE GIVEN IN APPENDIX.

TABLE IV
DATA ON CONDITIONING AND TESTING ENVIRONMENTS
JULY, AUGUST, SEPTEMBER, 1978

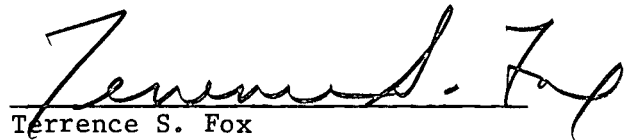
Code	Conditioning Environment				Testing Environment
	Are Quality Samples Conditioned Before Testing?	Time	Temp., °F	RH, %	Are Quality Samples Tested Under Controlled Conditions of Temperature and Humidity?
A1	No data submitted for this period				
B1	No	--	--	--	No
C1	No data submitted for this period				
D1	Yes	15 min	72	50	Yes: 72°F; 50% RH
E1	No	--	--	--	Yes: 72 ± 2°F; 50 ± 3% RH
F1	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
G1	No	--	--	--	No
H1	No	--	--	--	Yes: 70 ± 1°F; 50 ± 1% RH
I1	No	--	--	--	No
J1	No	--	--	--	No
K1	No	--	--	--	Yes: 72 ± 1°F; 50 ± 2% RH
L1	No	--	--	--	No
M1	No	--	--	--	No
N1	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
O1	No data submitted for this period				
P1	No	--	--	--	Yes: 72 ± 2°F; 50 ± 2% RH
Q1	Yes	15 min	72	50	Yes: 72°F; 50% RH
R1	No	--	--	--	No
S1	No	--	--	--	No
T1	Yes	20 min	--	--	Yes: 72 ± 2°F; 50 ± 2% RH
U1	No data submitted for this period				
V1	No data submitted for this period				
W1	Yes	20 min	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
X1	No	--	--	--	Yes: 72 ± 2°F; 50 ± 5% RH
Y1	No	--	--	--	Yes: 72 ± 2°F; 50 ± 2% RH
Z1	No	--	--	--	Yes: 73 ± 2°F; 50 ± 5% RH
A2	No	--	--	--	No
B2	No data submitted for this period				
C2	No	--	--	--	No
D2	No	--	--	--	No
E2	No	--	--	--	No
F2	No data submitted for this period				
G2	No	--	--	--	No
H2	No data submitted for this period				
I2	No	--	--	--	Yes: 73 ± 3.5°F; 50 ± 2% RH
J2	No	--	--	--	Yes: 70 ± 2°F; 50 ± 2% RH
K2	No	--	--	--	No
L2	No	--	--	--	No
M2	No data submitted for this period				
N2	Yes	--	--	--	Yes: 73 ± 2°F; 50 ± 5% RH
O2	No	--	--	--	No
P2	No	--	--	--	No
Q2	No	--	--	--	Yes: 73 ± 2°F; 50 ± 2% RH
R2	No	--	--	--	Yes: 72 ± 1°F; 50 ± 2% RH

THE INSTITUTE OF PAPER CHEMISTRY



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Terrence S. Fox
Director
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APPENDIX

NOTES A, B, C, D, AND E, USED IN TABULATIONS OF MILL DATA

Notes A, B, C, D, and E, used in the tables of mill data are given below; these notes define the procedure used in calculating adjusted basis weight, machine factor, machine index, and F.K.B.G. index. It should be stressed that each formula is applicable only to a specific physical property of corrugating medium.

Note A: Adjusted basis weight (ABW) = reported weight (RBW) adjusted to moisture content of 7.8%:

$$ABW = RBW \left[\frac{(100 - \text{reported moisture content, \%})}{(100 - 7.8)} \right]$$

Note B: Machine factor (%) = $\left[\frac{\text{Current machine average}}{\text{Cumulative machine average}} \right] \cdot 100$ where

$$\text{Cumulative machine average} = \sum \frac{\text{CMA's}^a \text{ for previous 12 months excluding CMA for current month}}{12}$$

Note C: Machine index (%) = $\left[\frac{\text{Current machine average}}{\text{Cumulative F.K.B.G. total average}} \right] \cdot 100$ where

$$\text{Cumulative F.K.B.G. average} = \sum \frac{\text{CFKBGA's}^b \text{ for previous 12 months excluding CFKBGA for current month}}{12}$$

Note D: F.K.B.G. index (%) = $\left[\frac{\text{Current F.K.B.G. average}}{\text{Cumulative F.K.B.G. average}} \right] \cdot 100$ where

$$\text{Current F.K.B.G. average} = \sum \frac{\text{CMA's}^a \text{ for current month for all machines}}{\text{Number of machines}}$$

Note E: (R) — Indicates a medium manufactured from recycled fibers.

^aCMA = current machine average for a specific physical property of 26-lb corrugating medium obtained during a given month on a specific machine.

^bCFKBGA = current F.K.B.G. average for a specific physical property of 26-lb corrugating medium obtained during a given month.

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